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	Application No.	Applicant(s)	
Notice of Allowability	10/689,676 Examiner	OYAMA, HAJIME Art Unit	T
	Tai T. Nguyen	2632	
The MAILING DATE of this communication a All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL- NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.	IS (OR REMAINS) CLOSED in 85) or other appropriate common RIGHTS. This application is the second sec	n this application. If not includ unication will be mailed in due	ed course. THIS
1. This communication is responsive to application filed on	n 10/22/2003.		
2. The allowed claim(s) is/are 1-26.			
3. A The drawings filed on 22 October 2003 are accepted by	y the Examiner.		
4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents h 2. Certified copies of the priority documents h 3. Copies of the certified copies of the priority	rave been received. Place been received in Application of documents have been received in Application of this communication to file on the second of the se	on No d in this national stage applicate a reply complying with the re AMINER'S AMENDMENT or Not declaration is deficient.	quirements
Identifying indicia such as the application number (see 37 CF each sheet. Replacement sheet(s) should be labeled as such	R 1.84(c)) should be written on t	he drawings in the front (not the	e back) of
DEPOSIT OF and/or INFORMATION about the de- attached Examiner's comment regarding REQUIREMENT	eposit of BIOLOGICAL MAT	ERIAL must be submitted.	Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-94) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/S Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Depos of Biological Material	8) 6. ☐ Interview S Paper No. B/08), 7. ☐ Examiner's	formal Patent Application (PT ummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allo	:
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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Allowable Subject Matter

- 2. Claims 1-26 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: many references in the art disclose system for estimate/determine the drowsiness/alertness of a driver comprising an image taken device for capturing blink duration of the driver's eyes in a predetermined time period and a computing device calculates a ratio of the number of slow blinks to the total numbers or blinks to detect the drowsiness level of the driver, such that found in Kumakura et al. (US 5,786,765) and Griesinger et al. (US 6,097,295). The prior art of record does not teach or suggest, in the claimed combination:

Regarding claim 1, an awakening level estimation apparatus comprising:

a signal processing part for calculating each frequency component power by making frequency conversion of a displacement amount of a vehicle in a direction of vehicle width detected in a time series manner;

a frequency component amount calculation part for calculating an average value of the frequency component powers;

a correction factor calculation part for calculating a high/low frequency percentile value in which the proportion of the total sum to the sum of incidents counted from the lower frequency component powers results in a predetermined proportion on a histogram of the high frequency component amount and calculating a correction factor based on the high/low frequency percentile values;

an evaluation value calculation part for calculating an evaluation value by correcting a ratio between the high frequency component amount and the low frequency component amount by the correction factor; and

a decision part for deciding an awakening level of a drive based on the evaluation value.

Regarding claim 17, the claimed method steps would have been inherent in the product structure as stated in claim 1 above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tai T. Nguyen whose telephone number is (571) 272-2961. The examiner can normally be reached on Monday-Friday from 7:30am-5:00pm..

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel J. Wu can be reached on (571) 272-2964. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tai T. Nguyen Examiner Art Unit 2632

March 10, 2005